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L Number	Hits	Search Text	DB	Time stamp
1	1925059	cost\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/19 16:48
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4	3504111	model\$4 or design\$4 or optimiz\$6 or optimal\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/19 16:52
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8	529	(cost\$1 with power) same ((wireless or base adj station\$1 or mobile\$1 or cellular) same (model\$4 or design\$4 or optimiz\$6 or optimal\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/19 17:04
9	88363	cost\$1 with power\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/19 17:04
10	6162	(model\$4 or design\$4 or optimiz\$6 or optimal\$3) with (cost\$1 with power\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/19 17:05

<b>11</b>	<b>219</b>	<b>((model\$4 or design\$4 or optimiz\$6 or optimal\$3) with (cost\$1 with power\$1)) same (wireless or base adj station\$1 or mobile\$1 or cellular)</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/03/19 17:05</b>
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**1 System design issues for low-power, low-cost short range wireless networking**

*Bhagwat, P.; Bisdikian, C.; Korpeoglu, I.; Krishna, A.; Naghshineh, M.;*

Personal Wireless Communication, 1999 IEEE International Conference on , 1 Feb. 1999

Pages:264 - 268

[\[Abstract\]](#)   [\[PDF Full-Text \(556 KB\)\]](#)   IEEE CNF

**2 PicoRadios for wireless sensor networks: the next challenge in ultra power design**

*Rabaey, J.M.; Ammer, J.; Karalar, T.; Suetfei Li; Otis, B.; Sheets, M.; Tuan, T.;*  
Solid-State Circuits Conference, 2002. Digest of Technical Papers. ISSCC. 2002 IEEE International , Volume: 1 , 3-7 Feb. 2002

Pages:200 - 201 vol.1

[\[Abstract\]](#)   [\[PDF Full-Text \(306 KB\)\]](#)   IEEE CNF

**3 Low cost diversity antennas for low power wireless base stations**

*Kitchener, D.; Smith, M.S.; Dalley, J.E.J.; Thomas, R.R.;*

Antennas and Propagation, Tenth International Conference on (Conf. Publ. No. 436) , Volume: 1 , 14-17 April 1997

Pages:445 - 447 vol.1

[\[Abstract\]](#)   [\[PDF Full-Text \(272 KB\)\]](#)   IEEE CNF

**4 Design challenges in the high volume manufacturing of millimeter-wave transceivers**

*Howard, T.;*

Emerging Technologies Symposium: Broadband, Wireless Internet Access, 2000 IEEE , 10-11 April 2000

Pages:5 pp.

[\[Abstract\]](#)   [\[PDF Full-Text \(384 KB\)\]](#)   IEEE CNF

**5 Advanced design, technology & manufacturing for high volume and cost production**

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## Cost-effective selection of radio access ports in den wireless systems

Stanley, R.A. Levesque, A.H.

GTE Labs. Inc., Waltham, MA, USA;

*This paper appears in: Personal, Indoor and Mobile Radio Communicati*  
**The Ninth IEEE International Symposium on**

Meeting Date: 09/08/1998 - 09/11/1998

Publication Date: 8-11 Sept. 1998

Location: Boston, MA USA

On page(s): 89 - 93 vol.1

Volume: 1

Reference Cited: 9

Number of Pages: 3 vol. 1574

Inspec Accession Number: 6269705

### Abstract:

A model for the overall cost of radio access ports to serve a given geographic area has been developed. It is shown that systems comprising large numbers of closely spaced radioports can be accurately modeled by a uniform geometric array of circular patterns. Based on empirical data, a least-squares cost representation of radio access ports is developed. Finally, the total cost of the system is developed and shown to be convex. An example demonstrates a nearly 6:1 ratio of system cost for radio access depending on the selection of radioport power and capacity.

### Index Terms:

[cellular radio](#) [channel capacity](#) [costing](#) [least mean squares methods](#) [cellular wireless telecommunications](#) [channel capacity](#) [circular coverage patterns](#) [closely spaced radioports](#) [composite radiated power](#) [convex total cost function](#) [cost model](#) [cost-effective selection of radio access ports](#) [economic margins](#) [empirical data](#) [geographical area](#) [least-squares representation](#) [radio access ports](#) [radioport power](#) [radioports](#) [system cost](#) [uniform array](#) [wireless system topology](#)

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